



TSMC-99-646B

#3/98K9A07
Dade

July 17, 2001

To: Commissioner of Patents and Trademarks
Washington, D.C. 20231

Fr: George O. Saile, Reg. No. 19,572
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Poughkeepsie, N.Y. 12603

Subject:

Serial No. 09/846,536 05/02/01

Wen-Ting Chu, Hsin-Ming Chen

A NOVEL SELF-ALIGNED, LOW CONTACT
RESISTANCE, VIA FABRICATION PROCESS

Grp. Art Unit: 2811

TC 2800 MAIL ROOM
JUL 20 2001

RECEIVED

INFORMATION DISCLOSURE STATEMENT

Enclosed is Form PTO-1449, Information Disclosure Citation
In An Application.

The following Patents and/or Publications are submitted to
comply with the duty of disclosure under CFR 1.97-1.99 and
37 CFR 1.56. Copies of each document is included herewith.

U.S. Patent 5,834,369 to Murakami et al., "Method of
Preventing Diffusion Between Interconnect and Plug", discloses
a method for a Al line over an W-plug.

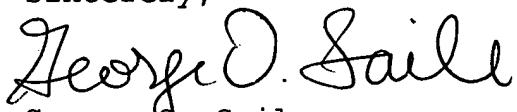
U.S. Patent 5,994,213 to Wang et al., "Aluminum Plug
Process", teaches an Al plug process.

U.S. Patent 5,956,609 to Lee et al., "Method for Reducing Stress and Improving Step-Coverage of Tungsten Interconnects and Plugs", discusses a plug/line process.

U.S. Patent 5,472,912 to Miller, "Method of Making an Integrated Circuit Structure by Using a Non-Conductive Plug", discloses a non-conductive plug that partially fills the via hole.

U.S. Patent 5,913,143 to Harakawa, "Method of Making a MultiLayer Interconnection of Semiconductor Device Using Plug", discusses an inter-level insulating film formed on a first Al film and a contact hole formed to partly expose the first Al film.

Sincerely,


George O. Saile,
Reg. No. 19572



Form PTO-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

Doctor's signature (Optional)

TSMC-99-046B

Appleton Hospital

09/846,536

Amstel

Wen-Ting Cha et al.

Fixing Date

05/02/01

Groups At Un

2811

U. S. PATENT DOCUMENTS

DEPARTMENT INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	ALTERNATE APPROMATE
DN	5834369	11/10/98	Murakami et al.	438	625	1/31/96
DN	5994213	11/30/99	Wang et al.	438	622	2/9/98
JN	5956609	9/21/99	Lee et al.	438	627	8/11/97
JN	59131436	6/15/99	Harakawa	438	627	4/1/97
JN	5472912	12/5/95	Miller	437	194	11/7/94

FOREIGN PATENT DOCUMENTS

OTHER DOCUMENTS (Including Author, Title, Date, Portion Page, Etc.)

A hand-drawn diagram on lined paper. It features two intersecting curves. The upper curve is a smooth, downward-opening shape, resembling a parabola or a stylized 'M'. The lower curve is a more irregular, wavy line that dips down and then rises again. The two curves intersect at two distinct points, creating a central, heart-like or figure-eight-like loop. The drawing is done in black ink on white paper with horizontal ruling lines.

DRUMMER

on

DATE CONSIDERED

11 / 15 / 01

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through